Raw Sequence Listing Error Summary

ERROR DETECTED   SUGGESTED   CORRECTION

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

2 _____ Wrapped Aminos   The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

3 _____ Incorrect Line Length   The rules require that a line not exceed 72 characters in length. This includes spaces.

4 _____ Misaligned Amino Acid   The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering   between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5 _____ Non-ASCII   This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6 _____ Variable Length   Sequence(s) _____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.

7 _____ PatentIn ver. 2.0 "bug"   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.

8 _____ Skipped Sequences   Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9 _____ Skipped Sequences   Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES)   <210> sequence id number
<400> sequence id number
000

10 _____ Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES)   Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

11 _____ Use of <213>Organism   Sequence(s) _____ are missing this mandatory field or its response.
(NEW RULES)

12 _____ Use of <220>Feature   Sequence(s) _____ are missing the <220>Feature and associated headings.
(NEW RULES)   Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of new Rules)

13 _____ PatentIn ver. 2.0 "bug"   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

```
            RAW SEQUENCE LISTING              DATE: 12/14/2000
            PATENT APPLICATION:  US/09/729,043   TIME: 11:29:11

            Input Set : A:\24584011.app
            Output Set: N:\CRF3\12142000\I729043.raw
```

Does Not Comply
Corrected Diskette Needed

pp 1-3

```
   3 <110> APPLICANT: BRADSHAW, M.
   4         BOLLEKENS, JACQUES
   5         RUDDLE, FRANK
   7 <120> TITLE OF INVENTION: A NEW YEAST-BACTERIA SHUTTLE VECTOR
   9 <130> FILE REFERENCE: 41674000
  11 <140> CURRENT APPLICATION NUMBER: US/09/729,043
  12 <141> CURRENT FILING DATE: 2000-12-04
  14 <150> PRIOR APPLICATION NUMBER: 09/095,372
  15 <151> PRIOR FILING DATE: 1998-06-10
  17 <150> PRIOR APPLICATION NUMBER: 08/761,704
  18 <151> PRIOR FILING DATE: 1996-12-06
  20 <150> PRIOR APPLICATION NUMBER: 60/008,250
  21 <151> PRIOR FILING DATE: 1995-12-06
  23 <160> NUMBER OF SEQ ID NOS: 13
  25 <170> SOFTWARE: PatentIn Ver. 2.1
  27 <210> SEQ ID NO: 1
  28 <211> LENGTH: 25
  29 <212> TYPE: DNA
  30 <213> ORGANISM: Artificial Sequence
  32 <220> FEATURE:
  33 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
  35 <400> SEQUENCE: 1
  36 tagatctgtt tgtctcccac atgcc                              25
  39 <210> SEQ ID NO: 2
  40 <211> LENGTH: 25
  41 <212> TYPE: DNA
  42 <213> ORGANISM: Artificial Sequence
  44 <220> FEATURE:
  45 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
  47 <220> FEATURE:
  48 <223> OTHER INFORMATION: nucleic acid
  50 <400> SEQUENCE: 2
  51 aggtggcagg ataaggaagg gttag                              25
  54 <210> SEQ ID NO: 3
  55 <211> LENGTH: 24
  56 <212> TYPE: DNA
  57 <213> ORGANISM: Artificial Sequence
  59 <220> FEATURE:
  60 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
  62 <220> FEATURE:
  63 <223> OTHER INFORMATION: nucleic acid
  65 <400> SEQUENCE: 3
  66 cgacaaggaa caaatcctaa gccc                               24
  69 <210> SEQ ID NO: 4
  70 <211> LENGTH: 24
  71 <212> TYPE: DNA
  72 <213> ORGANISM: Artificial Sequence
```

(see 1.823 of new)
(sequence rules)
invalid response - give source of genetic material

(see circled portion of item 12 on Error Summary sheet)

this is not a valid source of genetic material. It is not needed, anyway.

RAW SEQUENCE LISTING   DATE: 12/14/2000
PATENT APPLICATION: US/09/729,043   TIME: 11:29:11

     Input Set : A:\24584011.app
     Output Set: N:\CRF3\12142000\I729043.raw

```
 74 <220> FEATURE:
 75 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
 77 <220> FEATURE:
 78 <223> OTHER INFORMATION: nucleic acid
 80 <400> SEQUENCE: 4
 81 tgcatttgca gcctgatcca gcca                                    24
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 85 <211> LENGTH: 22
 86 <212> TYPE: DNA
 87 <213> ORGANISM: Artificial Sequence
 89 <220> FEATURE:
 90 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
 92 <220> FEATURE:
 93 <223> OTHER INFORMATION: nucleic acid
 95 <400> SEQUENCE: 5
 96 tctcatgttt gacagcttat ca                                      22
 99 <210> SEQ ID NO: 6
100 <211> LENGTH: 25
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
107 <220> FEATURE:
108 <223> OTHER INFORMATION: nucleic acid
110 <400> SEQUENCE: 6
111 agagtatact acataacata acaca                                   25
114 <210> SEQ ID NO: 7
115 <211> LENGTH: 23
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
122 <220> FEATURE:
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125 <400> SEQUENCE: 7
126 ttcaagggaa ttgatcctct acg                                     23
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 21
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
137 <220> FEATURE:
138 <223> OTHER INFORMATION: nucleic acid
140 <400> SEQUENCE: 8
141 aagattccga ataccgcaag c                                       21
144 <210> SEQ ID NO: 9
145 <211> LENGTH: 22
146 <212> TYPE: DNA
```

```
RAW SEQUENCE LISTING                    DATE: 12/14/2000
PATENT APPLICATION:  US/09/729,043      TIME: 11:29:11

Input Set : A:\24584011.app
Output Set: N:\CRF3\12142000\I729043.raw

147 <213> ORGANISM: Artificial Sequence
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150 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
152 <220> FEATURE:
153 <223> OTHER INFORMATION: nucleic acid
155 <400> SEQUENCE: 9
156 ttaaagaacg tggactccaa cg                            22
159 <210> SEQ ID NO: 10
160 <211> LENGTH: 23
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
167 <220> FEATURE:
168 <223> OTHER INFORMATION: neucleic acid
170 <220> FEATURE:
171 <223> OTHER INFORMATION: nucleic acid     7 duplicate
173 <400> SEQUENCE: 10
174 actgtgctct gcagtctcat ccg                           23
177 <210> SEQ ID NO: 11
178 <211> LENGTH: 22
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
185 <220> FEATURE:
186 <223> OTHER INFORMATION: nucleic acid
188 <400> SEQUENCE: 11
189 cgcagcggtc gacaaactta ca                            22
192 <210> SEQ ID NO: 12
193 <211> LENGTH: 24
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
200 <220> FEATURE:
201 <223> OTHER INFORMATION: nucleic acid
203 <400> SEQUENCE: 12
204 ctcctcctct ttctcctctt ccta                          24
207 <210> SEQ ID NO: 13
208 <211> LENGTH: 20
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA
215 <220> FEATURE:
216 <223> OTHER INFORMATION: nucleic acid
218 <400> SEQUENCE: 13
219 caacttggct accgagagta                               20
```

VERIFICATION SUMMARY   DATE: 12/14/2000
PATENT APPLICATION: US/09/729,043   TIME: 11:29:12

Input Set : **A:\24584011.app**
Output Set: **N:\CRF3\12142000\I729043.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number